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DATE MAILED: 10/27/2003

APPLICATION NO.	FILING DATE:	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/041,038	12/28/2001	Dmitri E. Nikonov	42390P13380	1947
7.5	90 10/27/2003		EXAM	INFR
Charles K. Yo			KIM, EI	LEN F
	KOLOFF, TAYLOR & Z.	AFMAN LLP		
12400 Wilshire	Boulevard		ART UNIT	PAPER NUMBER
Seventh Floor			2874	
Los Angeles, C	A 90025-1026			

Please find below and/or attached an Office communication concerning this application or proceeding.

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Los Angeles, CA 90025-1026

09/09/2003

Charles K. Young BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor

EXAMINER KIM, ELLEN E

PAPER NUMBER

ART UNIT

2424 DATE MAILED: 09/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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		Application N		Applicant(s)			
	Office Action Comments	10/041,038		NIKONOV ET AL.			
	Offic Action Summary	Examiner		Art Unit			
		Ellen E Kim		2874			
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1)	Responsive to communication(s) filed o	n					
2a)		This action is non-	final.				
3)	Since this application is in condition for	allowance except for t	ormal matters, pro	osecution as to the	e merits is		
Dispositi	closed in accordance with the practice upon of Claims	under Ex parte Quayle	, 1935 C.D. 11, 4	53 O.G. 213.			
4)⊠	Claim(s) 1-22 is/are pending in the appli	cation.					
	ta) Of the above claim(s) is/are wi	ithdrawn from conside	ration.				
5)[Claim(s) is/are allowed.						
6)⊠	Claim(s) 1-22 is/are rejected.						
7)[]	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction	and/or election require	ement.				
-	on Papers						
	he specification is objected to by the Exa						
10)[] 1	he drawing(s) filed on is/are: a)		•				
	Applicant may not request that any objection						
11)[] 7	he proposed drawing correction filed on			ved by the Examine	er,		
400	If approved, corrected drawings are required		ction.				
	he oath or declaration is objected to by the	ne Examiner.					
	nder 35 U.S.C. §§ 119 and 120						
	Acknowledgment is made of a claim for f	oreign priority under 3	5 U.S.C. § 119(a))-(d) or (f).			
	☐ All b)☐ Some * c)☐ None of:						
	 Certified copies of the priority docu 						
	 Certified copies of the priority docu 						
	Copies of the certified copies of the application from the internation	al Bureau (PCT Rule	17.2(a)).		Stage		
	* See the attached detailed Office action for a list of the certified copies not received.						
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 							
Attachment	•						
2) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-94 ation Disclosure Statement(s) (PTO-1449) Paper N			(PTO-413) Paper Notation (PTC			

Art Unit: 2874

DETAILED ACTION

Claim Rejections - 35 USC 8 112

Claim 4 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. "adding an additional layer ... after removing the first optical probe" is not clearly described in the specification.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 1-4, 7-12, and 16-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bendett et al [USPAT 6,330,388] in view of Hunsperger et al [USPAT 4.773.063].

Bendett et al disclose a waveguide device comprising a planar waveguide 202
[fig. 6] and the method of making it. Bendett et al teach at column 9, lines 23-36 that the laser 202 is tested by coupling light.

Bendett et al do not specifically show that the testing can be done by optical fiber couplings. Bendett et al however teach in fig. 5A that the laser 202 is coupled to light source by a first optical fiber and the output can be coupled to a second optical fiber. Therefore, it would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify Bendett et al's device to include the optical fibers to test the laser device 202 for the purpose of higher coupling efficiency.

Bendett et al do not show a side-polished optical fiber.

Hunsperger et al disclose an optical device comprising a polished optical fiber coupled to a waveguide device for the purpose of higher coupling efficiency [see column 7, lines 10-13].

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify Bendett et al's device to include the polished optical fiber as shown in Hunsperger et al's reference for the purpose of higher coupling efficiency.

In re claim 3, Bendett et al and Hunsperger et al do not disclose an indexmatching fluid as an interface between the first optical probe and the planar lightwave circuit. Official Notice is taken that utilizing an index-matching fluid between the optical fiber and the planar circuit for the purpose of higher coupling efficiency is old and well known in the art. See In Re Malcolm 1942 C.D. 589:543 O.G. 440 MPEP 706.02 (a).

Therefore, it would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify the device to include the index-matching fluid for the purpose of higher coupling efficiency.

In re claim 4, it is clear an air layer can be considered as an upper cladding layer.

In re claim 7, Bendett et al and Hunsperger et al do not specifically teach that the testing is done after the optical fiber is permanently attached to the device. It would have been obvious to the ordinary skilled person in the art at the time the invention was made to test the first few results after the device is assembled for the purpose of the optimum efficiency of the device.

Note that the method claims are inherently disclose by the Bendett et al and Hunsperger et al's reference.

In reclaims 10, 11 and 17, Examiner notes that when the optical probes are manually or mechanically coupled to the waveguide, some degree of freedom is always provided for the purpose of the best result of the combined device.

Claims 5, 6, 13, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bendett et al and Hunsperger et al as applied to claim 1 above, and further in view of Jewell et al [USPAT 6,542,672].

Bendett et al and Hunsperger et al discloses every aspect of claimed invention except for the testing the optical pathway prior to dicing the PLC wafer. Jewell et al teach at column 10, lines 22-31 that testing the sub-assemblies at the wafer level before the dicing the wafer would bring significant efficiency, and increase assembly process control of the device.

Therefore, It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify the device to include a method step of testing the optical pathway prior to dicing the PLC wafer for the purpose of significant efficiency, and increase assembly process control of the device.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Further references of interest are cited on Form PLO-892, which is attachment to this office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen Kim whose telephone number is (703) 308-4946. The examiner can normally be reached on Monday and Thursday.

Ellen E. Kim

Primary Examiner September 1, 2003/EK

Elh K

Notice f Referenc s Cited	Application/Control No. 10/041,038	Applicant(s)/Patent Under Reexamination NIKONOV ET AL.	
House Therefelle 3 Cheu	Examiner	Art Unit	
	Ellen E Kim	2874	Page 1 of 1

U.S.	PAT	ENT	DOC	UME	NT5	ì

*		Oocument Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
Г	Α	US-6,542,672	04-2003	Jewell et al.	385/49
	8	US-4,773.063	09-1988	Hunsperger et al.	398/87
Г	С	US-6,330,388	12-2001	Bendett et al.	385/132
	D	US-5,321,714	06-1994	Paoli, Thomas L.	372/50
	E	U\$-6,028,435	02-2000	Nikawa, Kiyoshi	324/752
Г	F	US-5,631,571	05-1997	Spaziani et al.	324/752
	G	US-6,243,517	06-2001	Deacon, David A. G.	385/50
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FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707 05(a).)
Dates in MM-YYYY formal are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20030901